



## Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS HCS 2012

Trade name: Mark E II

### 1 Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** Mark E II ST-756, ST-757, ST-758, ST-760, ST-2145, ST-2146
- **Article number:** SL45 **EPA REG. #:** 10324-108-3640
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the preparation** Disinfectant

**Product dilution information:** 0.5 fl. oz. (17.78 ml) per 1 gallon of water for disinfection. (10 minute contact time)  
0.5 fl. oz. (17.78 ml) per 1 gallon of water for non-food contact sanitizing. (3 minute contact time)

- **1.3 Details of the supplier of the Safety Data Sheet**






Stearns Packaging Corporation  
4200 Sycamore Avenue (53714)  
PO Box 3216  
Madison, WI 53704-0216  
Phone: 800-655-5008  
Email: [stearns@stearnspkg.com](mailto:stearns@stearnspkg.com)  
Website: [www.stearnspkg.com](http://www.stearnspkg.com)

- **1.4 Emergency telephone number:**

ChemTel Inc.  
(800)255-3924, +1 (813)248-0585

### 2 Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**

Product as SOLD	Product at USE DILUTION
 GHS05 corrosion  Skin Corr. 1C H314 Causes severe skin burns and eye damage.  Eye Dam. 1 H318 Causes serious eye damage.	No pictogram  Eye Irrit. 2B, H320 Causes eye irritaion
 GHS07  Acute Tox. 4 H302 Harmful if swallowed.	Not classified.  Not classified.
<ul style="list-style-type: none"> <li>• <b>Classification according to Directive 67/548/EEC or Directive 1999/45/EC</b></li> </ul>	
 C; Corrosive R34: Causes burns.	 Xi; Irritant R36: Causes eye irritation.
 Xn; Harmful R22: Harmful if swallowed.	

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**• Information concerning particular hazards for human and environment:**

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

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**• Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

**• 2.2 Label elements****• Labeling according to Regulation (EC) No 1272/2008****Product as SOLD**

The product is classified and labeled according to the CLP regulation.

**Product at USE DILUTION**

The mixture does not meet the criteria for classification.

**• Hazard pictograms**

GHS05 GHS07

None

**• Signal word** Danger

Warning

**• Hazard-determining components of labelling:**

Alkyl (C12,C14,C16) Dimethyl Benzyl Ammonium Chloride  
 decyldimethyloctylammonium chloride  
 tetrasodium ethylenediaminetetraacetate  
 dimethyldioctylammonium chloride

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 decyldimethyloctylammonium chloride  
 tetrasodium ethylenediaminetetraacetate  
 dimethyldioctylammonium chloride

**• Hazard statements**

H302 Harmful if swallowed.  
 H314+H318 Causes severe skin burns and serious eye damage.

H320 Causes eye irritation.

**• Precautionary statements**

P260 Do not breathe mist/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P264 Wash hands thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P303+P361+P353+P310: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center / doctor.  
 P363 Wash contaminated clothing before reuse.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER or doctor/ physician.  
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/ physician if you feel unwell.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local regulations.

Wash hands thoroughly after handling.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists get medical attention.

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### 3 Composition/information on ingredients

• **3.2 Mixtures**

• **Description:** Mixture of substances listed below with nonhazardous additions.

• <b>Dangerous components:</b>		
CAS: 68424-85-1	Alkyl (C12,C14,C16) Dimethyl Benzyl Ammonium Chloride  Flam. Liq. 3, H226  Skin Corr. 1B, H314; Eye Dam. 1, H318  Acute Tox. 4, H302	2.5-10%
CAS: 32426-11-2	decyldimethyloctylammonium chloride  Skin Corr. 1C, H314; Eye Dam. 1, H318  Acute Tox. 4, H302; Acute Tox. 4, H312; STOT SE 3, H335	2.5-10%
CAS: 64-17-5	ethanol  Flam. Liq. 2, H225	2.5-4%
CAS: 64-02-8	tetrasodium ethylenediaminetetraacetate  Eye Dam. 1, H318  Acute Tox. 4, H302	2.5-10%
CAS: 5538-94-3	dimethyldioctylammonium chloride  Flam. Liq. 3, H226  Skin Corr. 1B, H314; Eye Dam. 1, H318  Acute Tox. 4, H302	2.5-10%
CAS: 7173-51-5	didecyldimethylammonium chloride  Skin Corr. 1B, H314; Eye Dam. 1, H318  Acute Tox. 4, H302	2.5-10%
CAS: 68439-46-3	alcohols, C9-11, ethoxylated  Skin Irrit. 2, H315, Eye Irrit. 2A, H319	2.5-10%

• **Additional information:** For the wording of the listed risk phrases refer to section 16.

### 4 First-aid measures

• **4.1 Description of first aid measures**

Product as SOLD	Product at USE DILUTION
<p>• <b>General information:</b> Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.</p>	No special measures required.

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Product as SOLD	Product at USE DILUTION
<ul style="list-style-type: none"> <li>• <b>After inhalation: Supply fresh air; consult doctor in case of complaints.</b> Provide oxygen treatment if affected person has difficulty breathing. In case of irregular breathing or respiratory arrest provide artificial respiration.</li> </ul>	Remove victim to fresh air and keep comfortable for breathing.
<ul style="list-style-type: none"> <li>• <b>After skin contact:</b> Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor. Seek immediate medical help for blistering or open wounds.</li> </ul>	If irritation occurs, rinse skin with water. If irritation persists get medical attention.
<ul style="list-style-type: none"> <li>• <b>After eye contact:</b> Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.</li> </ul>	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists get medical attention.
<ul style="list-style-type: none"> <li>• <b>After swallowing:</b> Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.</li> </ul>	Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.
<ul style="list-style-type: none"> <li>• <b>4.2 Most important symptoms and effects, both acute and delayed</b> Strong caustic effect on skin and mucous membranes. Breathing difficulty Coughing Headache Dizziness Gastric or intestinal disorders. Nausea</li> </ul>	No known effects.
<ul style="list-style-type: none"> <li>• <b>Hazards</b> Danger of disturbed cardiac rhythm. Danger of gastric perforation. Danger of severe eye injury. Condition may deteriorate with alcohol consumption.</li> </ul>	No known effects.
<ul style="list-style-type: none"> <li>• <b>4.3 Indication of any immediate medical attention and special treatment needed</b></li> </ul>	
No further relevant information available.	Treat symptomatically.

## 5 Fire-fighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** None.
- **5.2 Special hazards arising from the substance or mixture**  
During heating or in case of fire poisonous gases are produced.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.
- **Additional information** No further relevant information available.

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## 6 Accidental release measures

### • 6.1 Personal precautions, protective equipment and emergency procedures

Product as SOLD	Product at USE DILUTION
Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation	Use personal protective equipment as required.

### • 6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.	Avoid contact of large amounts of spilled material and run off with soil and surface waterways.
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### • 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Do not flush with water or aqueous cleansing agents Send for recovery or disposal in suitable receptacles.	Large Spills: Flush area with water. Prevent entry into waterways. Small Spills: Wipe up with absorbent material.
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### • 6.4 Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
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## 7 Handling and storage

### • 7.1 Precautions for safe handling

Product as SOLD	Product at USE DILUTION
Use only in well ventilated areas. Prevent formation of aerosols. Avoid splashes or spray in enclosed areas.	No special measures required.

### • Information about fire - and explosion protection:

No special measures required.	No special measures required.
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### • 7.2 Conditions for safe storage, including any incompatibilities

#### • Storage:

#### • Requirements to be met by storerooms and receptacles:

Provide ventilation for receptacles. Avoid storage near extreme heat, ignition sources or open flame.	Keep out of reach of children.
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#### • Information about storage in one common storage facility:

Store away from foodstuffs. Store away from oxidizing agents. Do not store together with acids.	No storage precautions necessary.
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Product as SOLD	Product at USE DILUTION
<b>• Further information about storage conditions:</b>	
Store in cool, dry conditions in well sealed receptacles. Protect from freezing.	No storage precautions necessary.
<b>• 7.3 Specific end use(s)</b> No further relevant information available.	

## 8 Exposure controls/personal protection

- Additional information about design of technical facilities:** No further data; see item 7.



Product as SOLD	Product at USE DILUTION														
<b>• 8.1 Control parameters</b>															
<b>• Ingredients with limit values that require monitoring at the workplace:</b>															
<table border="1"> <thead> <tr> <th colspan="2">64-17-5 ethanol</th> </tr> </thead> <tbody> <tr> <td>PEL (USA)</td> <td>Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm</td> </tr> <tr> <td>REL (USA)</td> <td>Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm</td> </tr> <tr> <td>TLV (USA)</td> <td>Short-term value: 1880 mg/m<sup>3</sup>, 1000 ppm</td> </tr> <tr> <td>EL (Canada)</td> <td>Short-term value: 1000 ppm</td> </tr> <tr> <td>EV (Canada)</td> <td>Long-term value: 1,900 mg/m<sup>3</sup>, 1,000 ppm</td> </tr> <tr> <td>LMPE (Mexico)</td> <td>Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm A4</td> </tr> </tbody> </table>	64-17-5 ethanol		PEL (USA)	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm	REL (USA)	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm	TLV (USA)	Short-term value: 1880 mg/m <sup>3</sup> , 1000 ppm	EL (Canada)	Short-term value: 1000 ppm	EV (Canada)	Long-term value: 1,900 mg/m <sup>3</sup> , 1,000 ppm	LMPE (Mexico)	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm A4	Not applicable
64-17-5 ethanol															
PEL (USA)	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm														
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LMPE (Mexico)	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm A4														
<b>• Additional information:</b> The lists valid during the making were used as basis.															
<b>• 8.2 Exposure controls</b>															
<b>• Personal protective equipment:</b>															
<b>• General protective and hygienic measures:</b>															
Pregnant women should strictly avoid inhalation or skin contact. The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.	Not required under normal conditions of use.														
<b>• Respiratory protection:</b>															
Not required under normal conditions of use. Use suitable respiratory protective device in case of insufficient ventilation. Use suitable respiratory protective device when aerosol or mist is formed.	A respirator is not required under normal and intended conditions of use.														

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Product as SOLD	Product at USE DILUTION
<b>• Protection of hands:</b>	
 Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.	No protective equipment is needed under normal conditions.
<b>• Material of gloves</b>	
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.	No protective equipment is needed under normal conditions.
<b>• Penetration time of glove material</b>	
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.	No protective equipment is needed under normal conditions.
<b>• For the permanent contact gloves made of the following materials are suitable:</b>	
Neoprene gloves Butyl rubber, BR Nitrile rubber, NBR	No protective equipment is needed under normal conditions.
<b>• Eye protection:</b>	
 Safety glasses	No protective equipment is needed under normal conditions.
<b>• Body protection:</b>	
Not required under normal conditions of use. Protection may be required for spills.	No protective equipment is needed under normal conditions.
<b>• Limitation and supervision of exposure into the environment</b>	
No further relevant information available.	No further relevant information available.

**9 Physical and chemical properties**

	Product as SOLD	Product at USE DILUTION
<b>• 9.1 Information on basic physical and chemical properties</b>		
<b>• General Information</b>		
<b>• Appearance:</b>		
Form:	Liquid	Liquid
Color:	Red	Light Red
• Odor:	Pleasant	Pleasant
• Odor threshold:	Not determined.	Not determined.
• pH-value at 20 °C:	8.0 ± 0.5 for concentrate	7.0 ± 0.5

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	Product as SOLD	Product at USE DILUTION
<ul style="list-style-type: none"> <li>• <b>Change in condition</b></li> <li>  <b>Melting point/Melting range:</b></li> <li>  <b>Boiling point/Boiling range:</b></li> </ul>	Undetermined. 212 °F / 100 °C	Not applicable. 100° C / 212° F
<ul style="list-style-type: none"> <li>• <b>Flash point:</b></li> </ul>	>212 °F / >100 °C	Not determined.
<ul style="list-style-type: none"> <li>• <b>Flammability (solid, gaseous):</b></li> </ul>	Not applicable.	Not applicable.
<ul style="list-style-type: none"> <li>• <b>Ignition temperature:</b></li> </ul>	Not determined.	Not applicable.
<ul style="list-style-type: none"> <li>• <b>Decomposition temperature:</b></li> </ul>	Not determined.	Not determined.
<ul style="list-style-type: none"> <li>• <b>Self-igniting:</b></li> </ul>	Product is not self-igniting.	Product is not self-igniting.
<ul style="list-style-type: none"> <li>• <b>Danger of explosion:</b></li> </ul>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.	Product does not present an explosion hazard.
<ul style="list-style-type: none"> <li>• <b>Explosion limits:</b></li> <li>  <b>Lower:</b></li> <li>  <b>Upper:</b></li> </ul>	Not determined. Not determined.	Not determined. Not determined.
<ul style="list-style-type: none"> <li>• <b>Vapor pressure at 20 °C:</b></li> </ul>	23 hPa	Not determined.
<ul style="list-style-type: none"> <li>• <b>Density at 20 °C:</b></li> <li>• <b>Relative density</b></li> <li>• <b>Vapor density</b></li> <li>• <b>Evaporation rate</b></li> </ul>	0.9992 g/cm <sup>3</sup> (8.338 lbs/gal) Not determined. Not applicable. Not applicable.	1.00 g/cm <sup>3</sup> Not determined. Not applicable. Not applicable.
<ul style="list-style-type: none"> <li>• <b>Solubility in / Miscibility with water:</b></li> </ul>	Easily soluble.	Complete
<ul style="list-style-type: none"> <li>• <b>Partition coefficient (n-octanol/water):</b></li> </ul>	Not determined.	Not determined.
<ul style="list-style-type: none"> <li>• <b>Viscosity:</b></li> <li>  <b>Dynamic:</b></li> <li>  <b>Kinematic:</b></li> </ul>	100 mPas Not applicable.	Not determined. Not determined.
<ul style="list-style-type: none"> <li>• <b>9.2 Other information</b></li> </ul>	No further relevant information available.	No further relevant information available.

## 10 Stability and reactivity

- **10.1 Reactivity** Not determined.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
 No decomposition if used and stored according to specifications.  
 Keep away from heat and direct sunlight.
- **10.3 Possibility of hazardous reactions**  
 Toxic fumes may be released if heated above the decomposition point.  
 Reacts with many consumer products, releasing chlorine or chlorine oxide gas.  
 Exothermic reaction with acids.  
 Reacts with certain metals.  
 Contact with acids releases toxic gases.  
 Reacts with strong oxidizing agents.
- **10.4 Conditions to avoid**  
 Store away from oxidizing agents.
- **Incompatible materials:**  
 Caution! Do not use in conjunction with other products. Dangerous gases (chlorine) may be given off.  
 Contact with acids liberates toxic gases.  
 Strong oxidizing agents.

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• **10.6 Hazardous decomposition products:**

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Hydrogen chloride (HCl)

Chlorine

Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide and carbon dioxide

### 11 Toxicological information

Product as SOLD	Product at USE DILUTION		
• <b>11.1 Information on toxicological effects</b>			
• <b>Acute toxicity:</b>			
809 mg/kg (Rat)	Non-toxic at use-dilution.		
• <b>Primary irritant effect:</b>			
• <b>on the skin:</b>			
Caustic effect on skin and mucous membranes.	Non-hazardous at use-dilution.		
• <b>on the eye:</b>			
Strong irritant with the danger of severe eye injury.	Non-hazardous at use-dilution.		
• <b>Sensitization:</b> No sensitizing effects known.			
No sensitizing effects known.			
• <b>Additional toxicological information:</b>			
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:			
Harmful Corrosive Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.	Not classified No known significant effects or critical hazards.		
• <b>Acute effects (acute toxicity, irritation and corrosivity):</b>			
Danger through skin absorption.	Non-hazardous at use-dilution.		
• <b>Carcinogenic categories</b>			
<table border="1"> <tr> <td>• <b>NTP (National Toxicology Program)</b></td> </tr> <tr> <td>None of the ingredients is listed.</td> </tr> </table>	• <b>NTP (National Toxicology Program)</b>	None of the ingredients is listed.	Not applicable.
• <b>NTP (National Toxicology Program)</b>			
None of the ingredients is listed.			

### 12 Ecological information

• **12.1 Toxicity**

• **Aquatic toxicity:** Toxic for aquatic organisms

• **12.2 Persistence and degradability** The product is partially biodegradable. Significant residuals remain.

• **12.3 Bioaccumulative potential** No further relevant information available.

• **12.4 Mobility in soil** No further relevant information available.

• **Ecotoxicological effects:**

• **Remark:**

Inhibition of the development of the biomass

Toxic for algae

• **Additional ecological information:**

• **General notes:**

Water Hazard Class (Self-classification) in the concentrate.

This statement was deduced from the properties of the single components.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even small quantities leak into the ground.

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- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

**13 Disposal considerations**• **13.1 Waste treatment methods**

Product as SOLD	Product at USE DILUTION
• <b>Recommendation</b>	
Must not be disposed together with household garbage. Do not allow product to reach sewage system. Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.	Diluted product can be flushed to sanitary sewer. Discard empty container in trash.
• <b>Uncleaned packaging:</b>	
• <b>Recommendation:</b> Disposal must be made according to official regulations.	Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

**14 Transport information**

Product as SOLD	
• <b>14.1 UN-Number</b> • <b>DOT, ADR, ADN, IMDG, IATA</b>	UN1903
• <b>14.2 UN proper shipping name</b> • <b>DOT (ST-2145, ST-2146)</b>	UN1903, disinfectants, liquid, corrosive, n.o.s. (quaternary ammonium compound), 8, PG III
• <b>DOT (ST-756, ST-757, ST-758, ST-760)</b>	UN1903, disinfectants, liquid, corrosive, n.o.s. (quaternary ammonium compound), 8, PG III, LTD. QTY.
• <b>ADR</b>	UN1903, disinfectants, liquid, corrosive, n.o.s. (quaternary ammonium compound), 8, PG III
• <b>IMDG, IATA</b>	UN1903, disinfectants, liquid, corrosive, n.o.s. (quaternary ammonium compound), 8, PG III
• <b>14.3 Transport hazard class(es)</b> This product can ship as Limited Quantity if packaged in ≤1.3 gallons (5 Liter) containers (Non Hazardous)	
• <b>DOT (ST-756, ST-757, ST-758, ST-760)</b>	
	
• <b>Class</b> • <b>Label</b>	N/A LTD. QTY.

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## • ADR (ST-2145, ST-2146)



• **Class** 8 (C9) Corrosive substances.  
• **Label** 8

## • IMDG, IATA (ST-2145, ST-2146)



• **Class** 8 Corrosive substances.  
• **Label** 8

• **14.4 Packing group**  
• **DOT, ADR, IMDG, IATA** III

• **14.5 Environmental hazards:**  
• **Marine pollutant:** No

• **14.6 Special precautions for user** Warning: Corrosive Substances  
• **Danger Code:** 80  
• **EMS Number** F-A,S-B

• **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

## • Transport/Additional information:

## • ADR

• **Limited quantities (LQ)** 1L  
• **Transport category** 3  
• **Tunnel restriction code** E

• **UN "Model Regulation":** (ST-756, ST-757, ST-758, ST-760) UN1903, disinfectants, liquid, corrosive, n.o.s. (quaternary ammonium compound), 8, PG III, LTD. QTY.

• **UN "Model Regulation":** (ST-2145, ST-2146) UN1903, disinfectants, liquid, corrosive, n.o.s. (quaternary ammonium compound), 8, PG III

**Product at USE DILUTION** Not intended for transport.

## 15 Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- United States (USA)
- SARA

Product as SOLD	Product at USE DILUTION
• <b>Section 355 (extremely hazardous substances):</b>	
None of the ingredients is listed.	Not applicable.
• <b>Section 313 (Specific toxic chemical listings):</b>	
None of the ingredients is listed.	None of the ingredients is listed.

(Contd. on page 12)

**Safety Data Sheet**  
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS HCS 2012

Trade name: Mark E II

(Contd. from page 11)

Product as SOLD		Product at USE DILUTION	
<b>• TSCA (Toxic Substances Control Act):</b>			
All ingredients are listed.		All ingredients are listed.	
<b>• Proposition 65 (California):</b>			
<b>• Chemicals known to cause cancer:</b>			
None of the ingredients is listed.		None of the ingredients is listed.	
<b>• Chemicals known to cause reproductive toxicity for females:</b>			
None of the ingredients is listed.		None of the ingredients is listed.	
<b>• Chemicals known to cause reproductive toxicity for males:</b>			
None of the ingredients is listed.		None of the ingredients is listed.	
<b>• Chemicals known to cause developmental toxicity:</b>			
Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.		None of the ingredients is listed.	
64-17-5	ethanol		
<b>• Carcinogenic Categories</b>			
<b>• EPA (Environmental Protection Agency)</b>			
None of the ingredients is listed.		None of the ingredients is listed.	
<b>• IARC (International Agency for Research on Cancer)</b>			
64-17-5	ethanol	1	None of the ingredients is listed.
<b>• TLV (Threshold Limit Value established by ACGIH)</b>			
64-17-5	ethanol	A3	None of the ingredients is listed.
<b>• NIOSH-Ca (National Institute for Occupational Safety and Health)</b>			
None of the ingredients is listed.		None of the ingredients is listed.	
<b>• OSHA-Ca (Occupational Safety &amp; Health Administration)</b>			
All ingredients are listed.		All ingredients are listed.	
<b>• Canada</b>			
<b>• Canadian Domestic Substances List (DSL)</b>			
All ingredients are listed.		All ingredients are listed.	
<b>• Canadian Ingredient Disclosure list (limit 0.1%)</b>			
64-17-5	ethanol		None of the ingredients is listed.
<b>• Canadian Ingredient Disclosure list (limit 1%)</b>			
None of the ingredients is listed.		None of the ingredients is listed.	
<b>• 15.2 Chemical safety assessment:</b> A Chemical Safety Assessment has not been carried out.			

(Contd. on page 13)

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS HCS 2012

Trade name: Mark E II

(Contd. from page 12)



## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### • Relevant phrases

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

R22	Harmful if swallowed.
R34	Causes burns.
R41	Risk of serious damage to eyes.

Product as SOLD	Product at USE DILUTION																
<b>• Hazardous Material Information System (U.S.A.)</b>																	
<table border="1"> <tr><td style="background-color: #000080; color: white;">Health</td><td style="text-align: center;">2</td></tr> <tr><td style="background-color: #ff0000; color: white;">Flammability</td><td style="text-align: center;">0</td></tr> <tr><td style="background-color: #ffff00;">Physical hazards</td><td style="text-align: center;">0</td></tr> <tr><td> </td><td> </td></tr> </table> <p>4=Very High; 3=High; 2=Moderate; 1=Slight; 0=Insignificant</p>	Health	2	Flammability	0	Physical hazards	0			<table border="1"> <tr><td style="background-color: #000080; color: white;">Health</td><td style="text-align: center;">1</td></tr> <tr><td style="background-color: #ff0000; color: white;">Flammability</td><td style="text-align: center;">0</td></tr> <tr><td style="background-color: #ffff00;">Physical hazards</td><td style="text-align: center;">0</td></tr> <tr><td> </td><td> </td></tr> </table> <p>4=Very High; 3=High; 2=Moderate; 1=Slight; 0=Insignificant</p>	Health	1	Flammability	0	Physical hazards	0		
Health	2																
Flammability	0																
Physical hazards	0																
Health	1																
Flammability	0																
Physical hazards	0																
<b>• NFPA ratings (scale 0 - 4)</b>																	
 <p>Health = 2 Fire = 0 Reactivity = 0</p>	 <p>Health = 1 Fire = 0 Reactivity = 0</p>																

### • MSDS File Name: SL45 Mark E II SDS

### • Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 GHS: Globally Harmonized System of Classification and Labeling of Chemicals  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 NFPA: National Fire Protection Association (USA)  
 HMIS: Hazardous Materials Identification System (USA)  
 WHMIS: Workplace Hazardous Materials Information System (Canada)  
 DNEL: Derived No-Effect Level (REACH)  
 PNEC: Predicted No-Effect Concentration (REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent

### • Sources

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### Revision:04/14/2015

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